

# CHEMOSPHERE

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## AIMS AND SCOPE

*Chemosphere* is an international journal designed for the rapid publication of original and important communications as well as review articles in English. *Chemosphere*, as a multi-disciplinary journal, offers maximum dissemination of investigations related to the health and safety of every aspect of life. Environmental protection encompasses a very wide field and relies on scientific research in chemistry, biology, physics, toxicology and inter-related disciplines. Three types of communication will be published.

1. Original communications describing important new discoveries or further developments in important fields of investigation related to the environment and human health.
2. Invited reviews, critical but non-polemical; mainly of new rapidly developing areas of environmental protection.
3. A special information and news section will provide current information on books, meetings, industrial practices and government decisions.

Scientific investigations in any of the following main topics will be considered for publication.

**THE NATURAL ENVIRONMENT.** Biological, chemical and physical studies designed to control or to prevent pollution of the air, waterways, sea and land.

**METEOROLOGY AND CLIMATE.** As they affect life processes and living entities. The interaction between meteorological and climatic factors and environmental pollutants and their effect on life.

**ENVIRONMENTAL CHEMICALS AND ANALYSIS.** Analysis and monitoring levels of chemicals in the environment. Composition of industrial products, production and synthesis of chemicals and their properties. Origin and routes into the environment.

**AIR AND WATER POLLUTION, WASTE TREATMENT.** This includes the release of pollutants during incineration or composting and the control of effluents or their interaction with ecosystems.

**ENVIRONMENTAL FATE OF CHEMICALS.** Transport routes in air and water, evaporation, adsorption, sedimentation, microbial degradation, animal and plant metabolism, environmental changes to compounds due to light, moisture and chemical interaction with natural substances, or additives to the environment.

**PHARMACODYNAMICS — BIOACCUMULATION — METABOLISM.** Uptake, accumulation, food web biomagnification, metabolic products and pathways, excretion, biological half-life.

**EFFECTS ON MAN.** Toxic and other undesirable effects on humans, animals and test systems used to predict human toxicity, e.g. LD<sub>50</sub> carcinogenesis tests, Ames tests and other *in vitro* systems; pharmacological and other sublethal effects, the interaction of chemicals with infectious diseases, etc.

**OCCUPATIONAL HAZARDS AND EXPOSURE.** *Chemosphere* is concerned with safety and protection in relation to spills and accidents as well as the interaction of all classes of chemicals with the environment.

**ECOTOXICOLOGY.** Effects of chemicals and physical agents on populations and communities of microorganisms, plants, animals and man.

**ATMOSPHERIC CHEMISTRY AND GLOBAL CHANGE.** This section will publish theoretical and experimental papers on urban, regional and global chemistry, including all aspects of past and present changes in atmospheric chemistry and climate caused by natural processes or anthropogenic activities. The main emphasis will be on global atmospheric chemistry of trace constituents, and the effect of human activities on the Earth's atmosphere, climate and habitability.

## INSTRUCTIONS TO CONTRIBUTORS FOR THE PREPARATION OF MANUSCRIPTS FOR PHOTO-OFFSET REPRODUCTION

1. Drafts of manuscripts in English only may be submitted *in duplicate* to the Editor-in-Chief or any of the Editors, all of whom are listed on the inside front cover of the Journal. However, for papers submitted to the section on *Atmospheric Chemistry and Global Change*, all must be sent to Dr. Khalil, the Editor for this section. Authors are reminded to retain a duplicate copy of their paper.

2. Manuscript drafts may be produced on any size of paper. However, final revised manuscripts should adhere to the following rules.

(a) The area typed should not exceed 195 × 275 mm.

(b) Black ink must be used (since blue cannot be reproduced with clarity) on good quality, white paper.

(c) Spacing of 1½ between lines should be used (*not* single spacing).

(d) It should be noted that, *when reproduced*, the manuscript will be reduced to 75% of its original size — this should be borne in mind when deciding the size of type, figures and captions to be used.

(e) The text of each paper *must* begin with a short *Abstract* (preferably not longer than 100 words).

(f) Finally, special laysheets (Crown Quarto, 75%) may be obtained on request from Pergamon Press (Oxford, U.K.) or from the Editors. Manuscripts may be typed directly on to these, with figures/tables inserted where required.

3. *Layout* — the title of each article should be in capital letters, centred on the first page, with the authors' names below, followed by their addresses. There should be clear spacing of at least 1 cm both above and below each of these units. The author(s) to whom correspondence should be addressed should be clearly indicated (e.g. by an asterisk or underlining).

4. *Illustrations* — figures, tables, formulae or any other illustrations should be included within the body of the text where necessary. As noted above, both text and illustrations will be reduced to 75% of the original upon reproduction, so authors should check that everything will be legible after reduction.

Figures may be inserted as black and white glossy photographs or black line drawings at the authors' discretion. They should be pasted on, rather than taped, since the latter results in unclear edges upon reproduction.

Original figures will only be returned to the authors upon request to the Publisher within 1 month of publication. Otherwise they will be discarded.

5. Each page should be numbered clearly (preferably on the back) in *light blue* or *yellow* crayon (neither of which reproduce photographically). Ink or dark colours should *not* be used for this purpose.

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Owing to the short production time for articles in this journal, it is essential to indicate the number of reprints required *when submitting the manuscript*. Confirmation of each order will accompany the notification of acceptance. Reprint orders received later than the manuscript cannot be executed until printing of the issue concerned has been completed, and a price quotation will be supplied.

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